FIG. 4A

```
   1 CGGAGAAGGATGGCAGCAGGGGCAGTGGTCGGAGGCTGGATGCTAGTCCTCAGTCTGGGG  60
           M  A  A  G  A  V  V  G  A  W  M  L  V  L  S  L  G

  61 GGGACAGTCACGGGGGACCAAAACATCACAGCCCGGATCGGGAAGCCACTGGTGCTGAAC  120
     G  T  V  T  G  D  Q  N  I  T  A  R  I  G  K  P  L  V  L  N

 121 TGCAAGGGAGCCCCCAAGAAACCACCCCAGCAGCTGGAATGGAAACTGAACACAGGCCGG  180
     C  K  G  A  P  K  K  P  P  Q  Q  L  E  W  K  L  N  T  G  R

 181 ACAGAAGCTTGGAAAGTCCTGTCTCCCCAGGGAGACCCCTGGGATAGCGTGGCTCGGGTC  240
     T  E  A  W  K  V  L  S  P  Q  G  D  P  W  D  S  V  A  R  V

 241 CTCCCCAACGGCTCCCTCCTCCTGCCGGCTGTTGGGATCCAGGATGAGGGGACTTTCCGG  300
     L  P  N  G  S  L  L  L  P  A  V  G  I  Q  D  E  G  T  F  R

 301 TGCCGGGCAACGAGCCGGAGCGGAAAGGAGACCAAGTCTAACTACCGAGTCCGAGTCTAT  360
     C  R  A  T  S  R  S  G  K  E  T  K  S  N  Y  R  V  R  V  Y

 361 CAGATTCCTGGGAAGCCAGAAATTGTTGATCCTGCCTCTGAACTCATGGCTGGTGTCCCC  420
     Q  I  P  G  K  P  E  I  V  D  P  A  S  E  L  M  A  G  V  P

 421 AATAAGGTGGGGACATGTGTGTCCGAGGGGGGCTACCCTGCAGGGACTCTTAACTGGCTC  480
     N  K  V  G  T  C  V  S  E  G  G  Y  P  A  G  T  L  N  W  L

 481 TTGGATGGGAAAACTCTGATTCCTGATGGCAAAGGAGTGTCAGTGAAGGAAGAGACCAAG  540
     L  D  G  K  T  L  I  P  D  G  K  G  V  S  V  K  E  E  T  K

 541 AGACACCCAAAGACAGGGCTTTTCACGCTCCATTCGGAGCTGATGGTGACCCCAGCTCGG  600
     R  H  P  K  T  G  L  F  T  L  H  S  E  L  M  V  T  P  A  R

 601 GGAGGAGCTCTCCACCCCACCTTCTCCTGTAGCTTCACCCCTGGCCTTCCCCGGCGCCGA  660
     G  G  A  L  H  P  T  F  S  C  S  F  T  P  G  L  P  R  R  R

 661 GCCCTGCACACGGCCCCCATCCAGCTCAGGGTCTGGAGTGAGCACCGAGGTGGGGAGGGC  720
     A  L  H  T  A  P  I  Q  L  R  V  W  S  E  H  R  G  G  E  G

 721 CCCAACGTGGACGCTGTGCCACTGAAGGAAGTCCAGTTGGTGGTAGAGCCAGAAGGGGGA  780
     P  N  V  D  A  V  P  L  K  E  V  Q  L  V  V  E  P  E  G  G

 781 GCAGTAGCTCCTGGTGGTACTGTGACCTTGACCTGTGAAGCCCCCGCCCAGCCCCCACCT  840
     A  V  A  P  G  G  T  V  T  L  T  C  E  A  P  A  Q  P  P  P

 841 CAAATCCACTGGATCAAGGATGGCAGGCCCCTGCCCCTTCCCCCTGGCCCCATGCTGCTC  900
     Q  I  H  W  I  K  D  G  R  P  L  P  L  P  P  G  P  M  L  L

 901 CTCCCAGAGGTAGGGCCTGAGGACCAGGGAACCTACAGTTGTGTGGCCACCCATCCCAGC  960
     L  P  E  V  G  P  E  D  Q  G  T  Y  S  C  V  A  T  H  P  S

 961 CATGGGCCCCAGGAGAGCCGTGCTGTCAGCGTCACGATCATCGAAACAGGCGAGGAGGGG 1020
     H  G  P  Q  E  S  R  A  V  S  V  T  I  I  E  T  G  E  E  G

1021 ACGACTGCAGGCTCTGTGGAAGGGCCGGGGCTGGAAACCCTAGCCCTGACCCTGGGGATC 1080
     T  T  A  G  S  V  E  G  P  G  L  E  T  L  A  L  T  L  G  I

1081 CTGGGAGGCCTGGGGACAGTCGCCCTGCTCATTGGGGTCATCGTGTGGCATCGAAGGCGG 1140
     L  G  G  L  G  T  V  A  L  L  I  G  V  I  V  W  H  R  R  R

1141 CAACGCAAAGGACAGGAGAGGAAGGTCCCGGAAAACCAGGAGGAGGAAGAGGAGGAGAGA 1200
     Q  R  K  G  Q  E  R  K  V  P  E  N  Q  E  E  E  E  E  E  R

1201 GCGGAACTGAACCAGCCAGAGGAGCCCGAGGCGGCAGAGAGCAGCACAGGAGGGCCTTGA 1260
     A  E  L  N  Q  P  E  E  P  E  A  A  E  S  S  T  G  G  P  *

1261 GGAGCCCACGGCCAGACCCGATCCATCAGCCCCTTTTCTTTTCCCACACTCTGTTCTGGC 1320

1321 CCCAGACCAGTTCTCCTCTGTATAATCTCCAGCCCACATCTCCCAAACTTTCTTCCACAA 1380

1381 CCAGAGCCTCCCACAAAAAGTGATGAGTAAACACCTGCCACATTTAAAAAAAAAAAAAA 1440
```

FIG. 4B

```
   1  GGGGCAGCCGGAACAGCAGTTGGAGCCTGGGTGCTGGTCCTCAGTCTGTGGGGGGCAGTA   60
      G  A  A  G  T  A  V  G  A  W  V  L  V  L  S  L  W  G  A  V

  61  GTAGGTGCTCAAAACATCAGCCCGGATTGGCGAGCCACTGGTGCTGAAGTGTAAGGGG   120
      V  G  A  Q  N  I  T  A  R  I  G  E  P  L  V  L  K  C  K  G

 121  GCCCCCAAGAAACCACCCCAGCGGCTGGAATGGAAACTGAACACAGGCCGGACAGAAGCT  180
      A  P  K  K  P  P  Q  R  L  E  W  K  L  N  T  G  R  T  E  A

 181  TGGAAGGTCCTGTCTCCCCAGGGAGGAGGCCCCTGGGACAGTGTGGCTCGTGTCCTTCCC  240
      W  K  V  L  S  P  Q  G  G  G  P  W  D  S  V  A  R  V  L  P

 241  AACGGCTGCCTCTTCCTTCCGGCTGTCGGGATCCAGGATGAGGGGATTTTCCGGTGCAGG  300
      N  G  S  L  F  L  P  A  V  G  I  Q  D  E  G  I  F  R  C  R

 301  GCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACTACCGAGTCCGTGTCTACCAGATT  360
      A  M  N  R  N  G  K  E  T  K  S  N  Y  R  V  R  V  Y  Q  I

 361  CCTGGGAAGCCAGAAATTGTAGATTCTGCCTCTGAACTCACGGCTGGTGTTCCCAATAAG  420
      P  G  K  P  E  I  V  D  S  A  S  E  L  T  A  G  V  P  N  K

 421  GTGGGGACATGTGTGTCAGAGGGAAGCTACCCTGCAGGGACTCTTAGCTGGCACTTGGAT  480
      V  G  T  C  V  S  E  G  S  Y  P  A  G  T  L  S  W  H  L  D

 481  GGGAAGCCCCTGGTGCCTAATGAGAAGGGAGTATCTGTGAAGGAACAGACCAGGAGACAC  540
      G  K  P  L  V  P  N  E  K  G  V  S  V  K  E  Q  T  R  R  H

 541  CCTGAGACAGGGCTCTTCACACTGCAGTCGGAGCTAATGGTGACCCCAGCCCGGGGAGGA  600
      P  E  T  G  L  F  T  L  Q  S  E  L  M  V  T  P  A  R  G  G

 601  GATCCCCGTCCCACCTTCTCCTGTAGCTTCAGCCCAGGCCTTCCCCGACACCGGGCCTTG  660

      D  P  R  P  T  F  S  C  S  F  S  P  G  L  P  R  H  R  A  L

 661  CGCACAGCCCCCATCCAGCCCCGTGTCTGGGAGCCCTGTGCCTCTGGAGGAGGTCCAATTG  720
      R  T  A  P  I  Q  P  R  V  W  E  P  V  P  L  E  E  V  Q  L

 721  GTGGTGGAGCCAGAAGGTGGAGCAGTAGCTCCTGGTGGAACCGTAACCCTGACCTGTGAA  780
      V  V  E  P  E  G  G  A  V  A  P  G  G  T  V  T  L  T  C  E

 781  GTCCCTGCCCAGCCCTCTCCTCAAATCCACTGGATGAAGGATGGTGTGCCCTTGCCCCTT  840
      V  P  A  Q  P  S  P  Q  I  H  W  M  K  D  G  V  P  L  P  L

 841  CCCCCCAGCCCTGTGCTGATCCTCCCTGAGATAGGGCCTCAGGACCAGGGAACCTACAGC  900
      P  P  S  P  V  L  I  L  P  E  I  G  P  Q  D  Q  G  T  Y  S

 901  TGTGTGGCCACCCATTCCAGCCACGGGCCCCAGGAAAGCCGTGCTGTCAGCATCAGCATC  960
      C  V  A  T  H  S  S  H  G  P  Q  E  S  R  A  V  S  I  S  I

 961  ATCGAACCAGGCGAGGAGGGGCCAACTGCAGGCTCTGTGGGAGGATCAGGGCTGGGAACT 1020
      I  E  P  G  E  E  G  P  T  A  G  S  V  G  G  S  G  L  G  T

1021  CTAGCCCTGGCCCTGGGGATCCTGGGAGGCCTGGGGACAGCCGCCCTGCTCATTGGGGTC 1080
      L  A  L  A  L  G  I  L  G  G  L  G  T  A  A  L  L  I  G  V

1081  ATCTTGTGGCAAAGGCGGCAACGCCGAGGAGAGGAGAGGAAGGCCCCAGAAAACCAGGAG 1140
      I  L  W  Q  R  R  Q  R  R  G  E  E  R  K  A  P  E  N  Q  E

1141  GAAGAGGAGGAGCGTGCAGAACTGAATCAGTCGGAGGAACCTGAGGCAGGCGAGAGTAGT 1200
      E  E  E  E  R  A  E  L  N  Q  S  E  E  P  E  A  G  E  S  S

1201  ACTGGAGGGCCTTGAGGGGCCCACAGACAGATCCCATCCATCAGCTCCCTTTTCTTTTTC 1260
      T  G  G  P  *

1261  CCTTGAACTGTTCTGGCCTCAGACCAACTCTCTCCTGTATAATCTCTCTCCTGTATAACC 1320

1321  CCACCTTGCCAAGCTTTCTTCTACAACCAGAGCCCCCCACAATGATGATTAAACACCTGA 1380

1381  CACATCTTGCAAAAAAAAAAAAAAAA 1406
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